

NAVSEA  
STANDARD ITEM

FY-00

ITEM NO: 009-74  
DATE: 07 NOV 1997  
CATEGORY: I

1. SCOPE:

1.1 Title: Man-Made Mineral Fiber Thermal Insulating  
Material; control

2. REFERENCES:

a. None.

3. REQUIREMENTS:

3.1 Accomplish the following for the control of respirable fibers during insulation and lagging operations. Ensure that responsibilities for personnel safety and control of insulating materials are assigned and implemented.

3.1.1 Maintain written substantiation of the credentials of the Qualified Person.

3.1.1.1 The Qualified Person shall be capable of specifying the necessary protection and precautions to be taken during work with thermal insulation. The Qualified Person shall have received specific training in air sampling by a Certified Industrial Hygienist on an annual basis and training in asbestos sampling and fiber counting (National Institute for Occupational Safety and Health [NIOSH] 582 Course or equivalent). Successful participation, on a continuing basis, in the American Industrial Hygiene Association (AIHA) Program for asbestos, or equal, shall be required for the person counting fiber samples. Persons performing analysis of fiber type on bulk samples shall have received training in microscopic analysis of asbestos and successfully participate, on a continuing basis, in the Environmental Protection Agency (EPA) Asbestos Bulk Sample Analysis Quality Assurance Program or equivalent.

3.1.2 Maintain a copy of the program to ensure personnel accomplishing work have direct knowledge of requirements prior to beginning work. The program shall be under the supervision of a Qualified Person as defined in 3.1.1.1.

3.1.3 Conduct periodic inspections of affected areas and adjacent areas to ensure work area containments and work practices are effective.

3.1.4 Conduct air sampling prior to start of work to establish base line, upon completion of work to verify clean-up, and at a minimum of every four hours while work is in progress. Sampling and counting of fibers shall be in accordance with NIOSH Method 7400, using counting method B.

3.1.5 Isolate and blank ship's ventilation systems in work areas to prevent contamination of ventilation systems and other compartments.

3.1.6 Equip vacuum cleaners and exhaust vents with high efficiency particulate air (HEPA) filters.

3.1.7 Collect and dispose of insulation waste, scrap, debris, and special clothing consigned for disposal, which may produce airborne concentrations of fibers, in sealed, impermeable polyethylene bags (minimum thickness six mils). Prior to placing into bags, waste shall be wet down to reduce airborne concentration of fibers.

3.1.8 Vacuum outer surface of bags containing insulation material and dispose of bags after establishing control measures, as needed, to prevent mishandling that could result in spills and personnel exposure.

3.1.9 Comply with local environmental regulations for disposal of waste thermal insulation.

3.1.10 Submit four legible copies of a report to the SUPERVISOR that verifies that the airborne concentration of fibers is below 2.0 respirable fibers per cubic centimeter upon completion of work.

3.1.11 Remove insulation and lagging from salvage or scrap equipment, piping, and structural components prior to delivery to the Government.

#### 4. NOTES:

4.1 Examples of man-made mineral fiber thermal insulating material which may be respirable (diameter of less than three microns) are:

Ceramic Fiber  
Mineral (Rock or Slag) Wool  
Fibrous Glass